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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/759,684	01/10/2001	Larry L. Hood	155694-0067	3084	
7590 07/13/2004			EXAMINER		
Ben J. Yorks			SHAY, DAVID M		
Irell & Manella, LLP			ART UNIT	PAPER NUMBER	
Suite 400				1 AI EK NOMBEK	
	ort Center Drive 3739				
Newport Beach, CA 92660			DATE MAILED: 07/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)		detal	
Office Action Summary	Examiner S. She		Art Unit	6
-The MAILING DATE of this communication appears	on the cover sheet be	eneath the correspor	ndence address)
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE	MONTH(S) FROM	THE MAILING D	DATÉ
 Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, or Failure to reply within the set or extended period for reply will, by statute 	y within the statutory minimopire SIX (6) MONTHS from	um of thirty (30) days will be the mailing date of this co	oe considered timely	
Status	1			
Responsive to communication(s) filed on Warch 19	2007			_•
This action is FINAL.	,			
 Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 			rits is closed in	
Disposition of Claims				
PClaim(s) 11,13,14,16,18, 820-23		is/are pending	in the applicatior	า.
Of the above claim(s)	is/are withdraw	_ is/are withdrawn from consideration.		
☐ Claim(s)	is/are allowed.	is/are allowed.		
□ Claim(s) 11,13,14,16,18, +20-23	is/are rejected.	is/are rejected.		
□ Claim(s)				
☐ Claim(s)	are subject to r	estriction or elec	tion	
Application Papers	•	requirement.		
☐ See the attached Notice of Draftsperson's Patent Drawing	Review. PTO-948.			
☐ The proposed drawing correction, filed on	·	☐ disapproved.		
☐ The drawing(s) filed on is/are objecte	d to by the Examiner.			
☐ The specification is objected to by the Examiner.				
$\hfill\Box$ The oath or declaration is objected to by the Examiner. \hfill	•			
Priority under 35 U.S.C. § 119 (a)-(d)				
 □ Acknowledgment is made of a claim for foreign priority und □ All □ Some* □ None of the CERTIFIED copies of th □ received. 	- , ,	, -		
 received in Application No. (Series Code/Serial Number) received in this national stage application from the International 				
*Certified copies not received:				
Attachment(s)				
Prinformation Disclosure Statement(s), PTO-1449, Paper No.	s) 🗆 Ir	nterview Summary, PT	O-413	
☐ Notice of Reference(s) Cited, PTO-892	otice of Informal Pate	nt Application, P	TO-152	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948		Other		
Office A	Action Summary			

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 11, 13, 14, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doss et al in combination with Schachar and Wuchinich. Doss et al teach a device which can deliver energy at 100 KHz-10MHZ (see column 3, lines 46-51), with a ground pad (see Figure 1, element 36 and column 3, lines 41-44), a connector arrangement as claimed (see elements 12, 16, and 20 or 12, 26 and 28 in figure 5) and a stop (see element 42 in figure 5). Doss et al also teach the application of power in bursts of "about one second" (see column 3, line 50) as well as the typical corneal thickness and desired temperature ranges to heat the tissue (see column 1, lines 38-68). Schachar teaches a system for heating the corneal stroma including probe tip which is heated to heat the stroma wherein the last 300 to 600 microns is considered to be the tip and the shaft of the probe is considered a "spring beam" since its function is to help maintain contact with the tissue to be heated. Wuchinich teaches the use of a pulsed periodic damped waveform for coagulation. It would have been obvious to the artisan of ordinary skill to employ the power source and connections of Doss et al to maintain the power level at or below 1.2 watts, since the desired temperature changes to produce the effects are known, and thus the appropriate wattage would also be known, Doss et al also teach the desired temperature for shrinkage of tissue and the use of RF in the claimed frequency and time exposure range to provide the shrinkage; to either employ the connections of Doss et al in the system of Schachar, since Schachar teaches no particular power source or to employ the probe configuration of Schachar in the device of Doss et al, since this would provide a more localized application of heat to the stromal tissue and to maintain the power level at or below 1.2 watts, since the desired

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temperature to produce the effects are known and thus the appropriate wattage would also be known, further the exact power level and duration being dependant on the probe geometry of Schachar being the same as that of applicants probe, the power requirement would be the same, and to employ a damped waveform, since this is the waveform used for coagulation and to employ a pulse repetition rate between 4 KHz, and 12 KHz, since Wuchinich merely discloses a general pulse repetition rate; the precise repetition rate determining the temperature that the tissue will reach; and the temperature for corneal shrinkage is known, as taught by Doss et al, thus producing a device as claimed.

Claims 20, 21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doss et al in combination with Wuchinich. The teachings of Wuchinich and Doss et al and the motivations for combinations and modification thereof are essentially those already set forth above. Thus it would have been obvious to the artisan of ordinary skill to combine these old and well known teachings to produce a method such as claimed.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Doss et al in combination with Wuchinich et al as applied to claims 20,21, and 23 above, and further in view of Schachar. The teachings of Schachar and the motivations for combinations and modification thereof are essentially those already set forth regarding claims 11, 13, 14, 16, and 18. Thus it would have been obvious to the artisan of ordinary skill to combine these old and well known teachings to produce a method such as claimed.

Applicant argues that because element 42 of Doss et al is formed of the same material of housing 24 (a non-conductive material); "Doss does not disclose a probe from which current flows that has a stop which limits the penetration depth of the tip" (see the instant response, page Art Unit: 3739

4, third full paragraph, sixth sentence). If there is any specific limitation on the type of material from which the stop is to be constructed present in claims, it has eluded the examiner. As the stop of Doss is constructed to prevent the electrode from coming in contact with the cornea, clearly the penetration depth is very limited, thus all claimed aspects of the stop are taught by Doss.

Regarding claim 20 applicant appears to be arguing that because element 42 of Doss is non-conductive, it is not part of the probe and thus the probe of Doss does not contact the cornea. Applicant is respectfully reminded that claims terms are to be given their broadest reasonable interpretation (see MPEP 2111). It is noted that according to the instant specification, the term "probe" encompass non-conductive structures (e.g. the handpiece – see the originally filed disclosure, page 12, first paragraph). Thus the method of Doss, which although contacting the cornea with a non-conductive stop, still has current flow "from the electrode 20, through the saline solution and cornea, and into electrode 36" (see the instant response, page 4, third paragraph, fifth sentence) still reads on the claimed method.

Applicant's arguments with respect to claims 11, 13, 14,16, and 18 have been considered but are most in view of the new ground(s) of rejection.

Applicant's arguments filed March 19, 2004 have been fully considered but they are not persuasive. The arguments are not persuasive for the reasons set forth above.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to David Shay at telephone number 308-2215.

Shay/dl

June 17, 2004

DAVID M. SHAY PRIMARY EXAMINER GROUP 330